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TO STOLEN IN PARTY				
		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
APPLICATION NO.	FILING DATE		3030-69081	7528
09/982,154	10/18/2001	Brian E. Gorrell	3030-09001	
23073	7590 10/04/2002		EXAMINER MAYO III, WILLIAM H	
11 SOUTH M	THORNBURG ERIDIAN			
INDIANAPOLIS, IN 46204			ART UNIT	PAPER NUMBER
			2831	`
			DATE MAILED: 10/04/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)			
•			GORRELL, BRIAN E.			
Office Action Summany		09/982,154	Art Unit			
	Office Action Summary	Examiner	2831			
	- The MAILING DATE of this communicati n ap	William H. Mayo III				
Period for	r Reply					
A SHO THE N - Exten after S - If the - If NO - Failur	ORTENED STATUTORY PERIOD FOR REPIDALING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a repend for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of this d will apply and will expire SIX (6) MO	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
1)	Responsive to communication(s) filed on					
2a)□		This action is non-final.				
3)	Since this application is in condition for allow	wance except for formal m	atters, prosecution as to the merits is			
=	closed in accordance with the practice under ion of Claims					
4)⊠	Claim(s) 1-20 is/are pending in the applicati	on.				
	4a) Of the above claim(s) is/are withd	rawn from consideration.	•			
	Claim(s) is/are allowed.					
=	Claim(s) <u>1-20</u> is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and	d/or election requirement.				
	ion Papers					
9)□	The specification is objected to by the Exami	mer.	the Fyaminer			
10)□	The drawing(s) filed on is/are: a) ac	cepted or b) objected to by	wance See 37 CFR 1 85(a).			
	Applicant may not request that any objection to The proposed drawing correction filed on	une drawing(s) be neid in about the light of	disapproved by the Examiner.			
11)[
	If approved, corrected drawings are required in					
· ·	The oath or declaration is objected to by the	EAGITHIOI.				
Priority	under 35 U.S.C. §§ 119 and 120	tang padadhi matan 65 H 67	\$ 8 119/a\-(d\ or (f\			
i .	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C	7. 8 119(a)-(a) of (i).			
a)	4-1				
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the papplication from the International See the attached detailed Office action for a	list of the certified copies r	ot received.			
141	Acknowledgment is made of a claim for dom	estic priority under 35 U.S.	C. § 119(e) (to a provisional application).			
	 a) The translation of the foreign language Acknowledgment is made of a claim for dom 	provisional application has	s been received.			
Attachme						
1) No	tice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948 ormation Disclosure Statement(s) (PTO-1449) Paper No) 5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)			
U.S. Patent and	d Trademark Office		Part of Paper No. 4			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed April 15, 2002 has been submitted for consideration by the Office. It has been placed in the application file and the information referred to therein has been considered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-10, 13-14, 17, and 19-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Hastings et al (Pat Num 4,739,935, herein referred to as Hastings). Hasting discloses a high voltage cable (Figs 1-3) utilized in a spray system. Specifically, with respect to claim 1, Hastings discloses a high voltage cable (Figs 1-3) including a fiber core (40), a first layer (42) of an electrically relatively non-insulative polymer (Col 4, lines 4-13), a second layer (44) of an electrically relatively non-conductive polymer (Col 4, lines 50-55), a third layer (46) of an electrically relatively non insulative polymer (Col 4, lines 58-62), a fourth layer (50) including a metal braid shield (Col 6, lines 10-16), and a fifth layer (54) including a relatively solvent- and abrasive-resistant polymer jacket (Col 6, lines 10-15). With respect to claim 2, Hastings

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discloses that the fiber core (42) includes a stranded fiber polyester core (Col 4, lines 5-10). With respect to claim 3, Hastings discloses that the fiber core (42) is impregnated to increase its bulk conductivity (i.e. silicone carbide). With respect to claim 4, Hastings discloses that the fiber core (42) is impregnated with carbon black (i.e. silicon carbide). With respect to claim 5, Hastings discloses that the fiber core (42) is impregnated to increase its bulk conductivity. With respect to claim 6, Hastings discloses that the fiber core (42) is impregnated with carbon black (i.e. silicon carbide). With respect to claim 7, Hastings discloses that the first layer (44) includes a layer of semiconductive polyethylene (Col 4, lines 50-55). With respect to claim 8, Hastings discloses that the first layer (44) includes a layer of semiconductive polyethylene that includes a layer of carbon black-loaded polyethylene (Col 4, lines 50-55). With respect to claims 9-10, Hastings discloses that the first layer (44) may includes a layer of non-conductive layer of low-density polyethylene (Col 5, lines 60-65). With respect to claim 13, Hastings discloses that third layer (46) includes a layer of spirally extruded electrically relatively non-insulative polymer (Col 5, lines 60-68). With respect to claim 14, Hastings discloses that the metal braid (50) shield includes a copper-containing braid shield (Col 6, lines 10-20). With respect to claim 17, Hastings discloses that the metal braid shield (50) includes a metal braid covering between about 100'% of the outside surface of the third layer (46) of electrically relatively non-insulative polymer (Fig 2). With respect to claim 19, Hastings discloses that the polymer jacket (54) includes a flexible polyurethane jacket (Col 6, lines 15-20). With respect to claim 20, Hastings discloses that cable (Fig 1) is in combination with a high magnitude

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atomization and dispensing of a coating material (14), a source (26) of the coating material coupled to the device (10), and wherein the high voltage cable (20) is coupled to the potential supply(18) to the device (10).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 11-12, 15-16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hastings et al (Pat Num 4,739,935, herein referred to as Hastings). Hasting discloses a high voltage cable (Figs 1-3) utilized in a spray system as detailed above with respect to claim 1.

However, Hastings doesn't necessarily disclose the layer being PVC (claim 11), nor the layer being sprially wrapped PVC (claim 12), nor the shield comprising tin (claim 14), nor the shield comprising tin braided shield (claim 15), nor the braid shield pitch being about 0 to 20° (claim 18).

With respect to claims 11-12 and 14-15, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the cable of Hastings to comprise the layer to be a sprially wrapped PVC and the shield to be a tin braided shield, since it has been held to be within general skill of a worker in the art to

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select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

With respect to claim 18, It would have been an obvious matter of design choice to modify the cable of Hastings to comprise braid shield pitch being about 0 to 20°, since the applicant has not disclosed that such a modification solves any stated problems or is for any particular purpose and it appears that Hastings would perform equally well with the modification.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are Aldissi (Pat Num 5,473,113) and Frawley (Pat Num 4,757,297), both of which disclose tin braids.

Communication

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Mayo III whose telephone number is (703)306-9061. The examiner can normally be reached on M-F 8:30am-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dean Reichard can be reached on (703) 308-3682. The fax phone numbers for the organization where this application or proceeding is assigned are (703)305-3432 for regular communications and (703)305-3431 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

WHM III

October 1, 2002